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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/877,820	06/07/2001	Avinash Jain	010296	1176
23696 OUALCOMM	7590 02/26/2007 I INCORPORATED		EXAMINER	
5775 MOREH	OUSE DR.		LEE, ANDREW C	HUNG CHEUNG
SAN DIEGO,	CA 92121		ART UNIT	PAPER NUMBER
			2616	
SHORTENED STATUTO	RY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 M(ONTHS	02/26/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	09/877,820	JAIN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Andrew C. Lee	2616	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	with the correspondence addre	!SS
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MO tute, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 14	November 2006.		
2a) ☐ This action is FINAL . 2b) ☒ TI	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice unde	<u>.</u>	• •	erits is
Disposition of Claims			
 4) Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 and 13-16 is/are rejected. 7) Claim(s) 11,12 is/are objected to. 8) Claim(s) are subject to restriction and 	rawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exami	iner.		
10) ☐ The drawing(s) filed on is/are: a) ☐ a	ccepted or b) objected to	o by the Examiner.	
Applicant may not request that any objection to the		• •	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	•	- , , -	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No in received in this National Sta	age
Attachment(s)			
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		y Summary (PTO-413) p(s)/Mail Date	
information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		f Informal Patent Application	

DETAILED ACTION

1. In view of the appeal brief filed on 11/14/2006, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

Mr. Wing Chan.

Supervisory Patent Examiner

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Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 3, 8 10, 13 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Larsson (US 6707862 B1).

Regarding Claims 1, 13, Larsson discloses the limitation of a method to determine a next data rate in a mobile station of a wireless system (Fig. 4, column 2, lines 58 – 67; referenced "to predictive determine a traffic channel data rate"), comprising: receiving a congestion indicator (column 2, lines 41 – 45; referenced "a suitable power correction command (as congestion indicator) which is then transmitted back to the mobile"); generating the next data rate in the mobile station as a function of data rate history and history of congestion indicator of the mobile station (Fig. 4, column 6, lines 13 – 23; referenced "the data rate to be used in the next frame is chosen by comparing the estimated average bit energy Z with the set of thresholds").

Regarding Claims 2, 14, Larsson discloses the limitation of a method as in claimed Wherein generating the next data rate further (Fig. 4, column 2, lines 58 – 67; referenced "to predictive determine a traffic channel data rate") comprises: comparing at least one previous data rate to a target data rate for the mobile station (column 6, lines 17 – 23;

referenced transmitted energy per bit within the most recently transmitted data frame using the traffic channel power and the current data rate"); and in response to a first result of comparing determining the next data rate by adjusting at least one data rate (column 7, lines 35 – 36; referenced the data rate is then adjusted with respect to the actual statistics of Z by using the threshold").

Regarding Claim 3, Larsson discloses the limitation of a method of claimed wherein adjusting the at least one previous data rate performs a statistical analysis (column 7, lines 35 – 36; referenced the data rate is then adjusted with respect to the actual statistics of Z by using the threshold").

Regarding Claim 8, Larsson discloses the limitation of a method as in claimed wherein the next data rate is generated at the mobile station and is independent of other mobile stations (column 3, lines 63 – 64, column 4, lines 4 – 5; referenced controlling the data rate of a wireless transmitter).

Regarding Claim 9, Larsson discloses the limitation of a method as in claimed wherein the maximum number is predetermined (column 2, lines 1 – 6; referenced maximum aggregate data rate).

Regarding Claim 10, Larsson discloses the limitation of the method as in claimed wherein the congestion indicator comprises multiple bits (column 10, lines 19 – 21; referenced "the incoming stream of power control bits").

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4 7, 15 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Larsson (US 6707862 B1) in view of Bark et al. (US 6553235 B2).

Regarding Claims 4, 15, Larsson discloses the limitation of a method of claimed wherein generating the next data rate (Fig. 4, column 2, lines 58 – 67; referenced "to predictive determine a traffic channel data rate") further comprises: Larsson does not disclose explicitly counting a number of consecutive same value congestion indicators; and if the number of consecutive same value congestion indicators is less than a predetermined maximum number, determining the next data rate by maintaining the at least one previous data rate. Bark et al. disclose counting a number of consecutive same value congestion indicators (Fig. 4, element P1, column 5, lines 1 – 3); and if the number of consecutive same value congestion indicators is less than a predetermined maximum number (column 5, lines 4 – 6), determining the next data rate by maintaining the at least

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one previous data rate (column 5, lines 49 - 58). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Larsson to include counting a number of consecutive same value congestion indicators; and if the number of consecutive same value congestion indicators is less than a predetermined maximum number, determining the next data rate by maintaining the at least one previous data rate such as that taught by Bark et al. in order to provide method and system for monitoring potential congestion on radio channels, and when appropriate, relieving the radio channel congestion as suggested by Bark et al., see column 1, lines 66 - 67, column 2, line 1.

Regarding Claims 5, 16, Larsson discloses the limitation of a method as in claimed wherein generating the next data rate (Fig. 4, column 2, lines 58 – 67; referenced "to predictive determine a traffic channel data rate") further comprises: Larsson does not disclose explicitly if the number of consecutive same value congestion indicators is equal to or greater than the maximum number, determining the next data rate by adjusting the at least one previous data rate. Bark et al. disclose if the number of consecutive same value congestion indicators is equal to or greater than the maximum number (column 6, lines 19 – 20), determining the next data rate by adjusting the at least one previous data rate (column 5, lines 49 – 58). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Larsson to include if the number of consecutive same value congestion indicators is equal to or greater than the maximum number, determining the next data rate by adjusting the at least one previous data rate such as that taught by Bark et al. in order to provide method and system for monitoring potential

congestion on radio channels, and when appropriate, relieving the radio channel congestion as suggested by Bark et al., see column 1, lines 66 – 67, column 2, line 1.

Regarding Claim 6, Larsson does not disclose the limitation of a method as in claimed wherein for a first congestion condition if the previous data rate is greater than the target data rate, adjusting comprises decreasing. Bark et al. disclose the limitation of a method as in claimed wherein for a first congestion condition if the previous data rate is greater than the target data rate, adjusting comprises decreasing (column 5, lines 6 – 8; lines 49 – 58). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Larsson to include wherein for a first congestion condition if the previous data rate is greater than the target data rate, adjusting comprises decreasing such as that taught by Bark et al. in order to provide method and system for monitoring potential congestion on radio channels, and when appropriate, relieving the radio channel congestion as suggested by Bark et al., see column 1, lines 66 – 67, column 2, line 1.

Regarding Claim 7, Larsson does not disclose the limitation of a method as in claimed wherein for a second congestion condition if the previous data rate is less than the target data rate, adjusting comprises increasing. Bark et al. discloses the limitation of a method as in claimed wherein for a second congestion condition if the previous data rate is less than the target data rate, adjusting comprises increasing (column 5, lines 4-6; lines 49-58). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Larsson to include wherein for a second congestion

condition if the previous data rate is less than the target data rate, adjusting comprises increasing such as that taught by Bark et al. in order to provide method and system for monitoring potential congestion on radio channels, and when appropriate, relieving the radio channel congestion as suggested by Bark et al., see column 1, lines 66 – 67, column 2, line 1.

Allowable Subject Matter

6. Claims 11, 12, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments filed on 11/14/2006 with respect to claims 1 – 16 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Umeda et al. (US 6909905 B2) disclose a mobile communication control system, which includes at least one mobile station and at least one base station, includes first through third parts.

- Knutsson et al (6128506) disclose a method of stabilizing a communication system having base stations and mobile stations using integrated control of both signal transmission power levels and signal congestion levels
- Dupont et al. (5974106) disclose a system is provided for multirate communications allowing for different data rates for each data unit on a channel, including both data units from different mobile units and from the same mobile unit.
- Walton Jr. et al. (5621723) disclose a means of power control on the reverse
 link of a CDMA network is disclosed. Specifically, the forward link from the
 base station to the subscriber unit is used to direct the subscriber unit to modify
 the output power radiated.
- Vanghi (US 7085581 B2) disclose in a communication network based on the TIA/EIA/IS-856 standard, or in other network types where forward link power control is desirable but where no reverse link channel or sub-channel to direct such power control is available, forward link rate request information from an access terminal may be used to infer carrier-to-interference (C/I) ratios at the access terminal.
- Olofsson et al. (US 6668159 B1) disclose a bit rate indicator for use in the mobile station of a radiotelephone system which provides an indication to the user of the maximal bit rate available in the current cell and the predicted bit

rate the user can expect to achieve if a session were initiated in his present location.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C. Lee whose telephone number is (571) 272-3131. The examiner can normally be reached on Monday through Friday from 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN

USA OR CANADA) or 571-272-1000.

WING CHÂN
SUPERVISORY PATENT EXAMINER

/ACL/